

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 10/09/2013 Version: 1.0

SECTION 1: Identification of the sub	stance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Trade name	: Galaxolide Pure
CAS No	: 1222-05-5
Product code	: G3400
Formula	: C18H26O
Synonyms	<ul> <li>1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyl-cyclopenta-gamma-2-benzopyran / cyclopenta[g]-2-benzopyran, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyl / Environmentally hazardous substance, liquid, n.o.s. / galaxolide / hexahydrohexamethyl cyclopentabenzopyran / HHCB (=hexahydrohexamethyl cyclopentabenzopyran)</li> </ul>
BIG no	: 30807
1.2. Relevant identified uses of the subs	stance or mixture and uses advised against
Use of the substance/mixture	: Cosmetic product: odorant Detergent: odorant
1.3. Details of the supplier of the safety	data sheet
CHEMTEX USA 27-29 Dwight Place Fairfield, 07004 - USA T 862-702-8900 - F 862-702-8180 <u>contact@chemtexusa.com</u> - <u>www.chemtexusa.co</u>	<u>om</u>
1.4. Emergency telephone number	
Emergency number	: CHEMTEL:(800)255-3924
SECTION 2: Hazards identification	
2.1. Classification of the substance or m	nixture
Classification (GHS-US) Aquatic Acute 1 H400 Aquatic Chronic 1 H410 Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	: GHS09
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	<ul> <li>H400 - Very toxic to aquatic life</li> <li>H410 - Very toxic to aquatic life with long lasting effects</li> </ul>
Precautionary statements (GHS-US)	<ul> <li>P273 - Avoid release to the environment</li> <li>P391 - Collect spillage</li> <li>P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste</li> </ul>
2.3. Other hazards	
No additional information available	
2.4. Unknown acute toxicity (GHS-US)	
Not applicable	
SECTION 3: Composition/informatio	n on ingredients
3.1. Substance	

06/03/2015

### Safety Data Sheet

Name	Product identifier	%	Classification (GHS-US)
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta- gamma-2-benzopyran (Main constituent)	(CAS No) 1222-05-5	100	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Full text of H-phrases: see section 16			
3.2. Mixture			
Not applicable			
SECTION 4: First aid measures			
I.1. Description of first aid measures			
6	If you feel unwell, seek medical advic person. If you feel unwell, seek medic	0 ,	0,
	Remove the victim into fresh air. Res Assure fresh air breathing. Allow the		onsult a doctor/medical service.
	Rinse with water. Take victim to a do wash all exposed skin area with mild		
	Rinse with water. Take victim to an o Obtain medical attention if pain, blink		
-	Rinse mouth with water. Call Poison doctor/medical service if you feel unv emergency medical attention.		
4.2. Most important symptoms and effects,	both acute and delayed		
	No data available. Not expected to pr normal use.	esent a significant h	azard under anticipated conditions of
4.3. Indication of any immediate medical att	ention and special treatment need	ed	
No additional information available			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media :	Water spray. Polyvalent foam. BC po Water spray. Sand.	wder. Carbon dioxide	e. Foam. Dry powder. Carbon dioxide
	No unsuitable extinguishing media kr	nown. Do not use a h	eavy water stream.
5.2. Special hazards arising from the substa	nce or mixture		
Fire hazard :	DIRECT FIRE HAZARD. Combustible flashpoint: higher fire/explosion haza		AZARD. Temperature above
Explosion hazard :	DIRECT EXPLOSION HAZARD. No EXPLOSION HAZARD. No data avai	data available on dire	•
Reactivity	Upon combustion: CO and CO2 are f	ormed.	
5.3. Advice for firefighters			
Precautionary measures fire :	Exposure to fire/heat: keep upwind. E	Exposure to fire/heat:	have neighbourhood close doors and

ecautionary r neasures windows. : Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment. **Firefighting instructions** : Heat/fire exposure: compressed air/oxygen apparatus. Do not enter fire area without proper protective equipment, including respiratory protection. Protection during firefighting

SECTION 6: Accidental release measures		
6.1.	Personal precautions, protective equipment and emergency procedures	
6.1.1.	For non-emergency personnel	
Protectiv	e equipment	: Gloves. Protective clothing.
Emergen	cy procedures	: Mark the danger area. No naked flames. Wash contaminated clothes. Evacuate unnecessary personnel.
6.1.2.	For emergency responders	
Protectiv	e equipment	: Equip cleanup crew with proper protection.
Emergen	cy procedures	: Ventilate area.

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#### 6.2. Environmental precautions

Prevent soil and water pollution. Prevent spreading in sewers. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3.	Methods and material for containme	nt and cleaning up
For con	tainment	: Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Dam up the liquid spill.
Method	s for cleaning up	: Take up liquid spill into absorbent material. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage	je
7.1. Precautions for safe handling	
Precautions for safe handling	: Comply with the legal requirements. Do not discharge the waste into the drain. Keep away from naked flames/heat. Finely divided: spark- and explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Observe normal hygiene standards. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
7.2. Conditions for safe storage, inc	cluding any incompatibilities
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
Incompatible products	: Strong bases. strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.
Heat-ignition	: KEEP SUBSTANCE AWAY FROM: heat sources.
Storage area	: Provide for a tub to collect spills. Meet the legal requirements.
Special rules on packaging	<ul> <li>SPECIAL REQUIREMENTS: correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.</li> </ul>
Packaging materials	: SUITABLE MATERIAL: No data available. MATERIAL TO AVOID: No data available.

7.3. Specific end use(s)

No additional information available

### **SECTION 8: Exposure controls/personal protection**

8.1.	Control parameters	
Galax	olide Pure (1222-05-5)	
ACGI	4	Not applicable
OSHA		Not applicable

8.2. Exposure controls	
Personal protective equipment	: Avoid all unnecessary exposure.
Materials for protective clothing	: GIVE EXCELLENT RESISTANCE: No data available. GIVE GOOD RESISTANCE: No data available. GIVE LESS RESISTANCE: No data available. GIVE POOR RESISTANCE: No data available.
Hand protection	: Gloves. Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Skin and body protection	: Protective clothing.
Respiratory protection	: High gas/vapour concentration: gas mask with filter type A. Wear approved mask.
Other information	: When using, do not eat, drink or smoke.

sical and chemical properties	SECTION 9: Physical and chemical properties		
on basic physical and chemical properties			
: Liquid			
: Liquid.			
_	n on basic physical and chemical properties : Liquid		

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Addr <ul> <li>No data available on odour</li> <li>No data available</li> <li>No data available</li></ul>	according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations		
Add rhreshold <ul> <li>M ko data available</li> <li>M ko data available</li></ul>	Color	: Colourless	
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Hash or         : 144 °C           Velative evaporation rate (butyl acetate=1)         : No data available           itammability (solid, gas)         : No data available           itammability (solid, gas)         : No data available           izplosion limits         : No data available           izplosion gropperties         : No data available           izplosino limits         : No data available           izplosino limits         : No data available           izplosino limits         : No data available           izport pressure         : 0.00073 hPa           Relative density         : 1.00           Velative vapor density at 20 °C         : 8.91           ispecific gravity / density         : 1000 kg/m³           Kolecular mass         : 228.44 g/mol           ispecific in water.         : Water.           ispecific gravity / density         : No data available           vator.00018 g/100ml         : S.9 (Experimental value)           og Kow         : No data available           vator.00018 g/100ml         : S.9 (Experimental value)           og Kow         : No data available           /iscosity (xinematic         : No data available           /iscosity (xinematic         : No data available           /iscosity (xinematic <td>Freezing point</td> <td>: No data available</td>	Freezing point	: No data available	
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Specific gravity / density       :       1000 kg/m³         folecular mass       :       258.44 g/mol         Solubility       :       Insoluble in water.         Solubility       :       Insoluble in water.         Solubility       :       Insoluble in water.         Solubility       :       S.9 (Experimental value)         Sog Pow       :       S.9 (Experimental value)         Sog Pow       :       No data available         Siccosity, kinematic       :       No data available         Siccosity, dynamic       :       No data available         Viccosity, dynamic       :       No data available         Soluber properties       : <td>Relative density</td> <td>: 1.00</td>	Relative density	: 1.00	
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/OC content       : 0 %         Other properties       : Gas/vapour heavier than air at 20°C. Slightly volatile.         SECTION 10: Stability and reactivity         0.1. Reactivity         Upon combustion: CO and CO2 are formed.         0.2. Chemical stability         Stable under normal conditions. Not established.         0.3. Possibility of hazardous reactions         Not established.         0.4. Conditions to avoid         Direct sunlight. Extremely high or low temperatures.	Viscosity, dynamic	: No data available	
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SECTION 10: Stability and reactivity         0.1. Reactivity         Upon combustion: CO and CO2 are formed.         0.2. Chemical stability         Stable under normal conditions. Not established.         0.3. Possibility of hazardous reactions         Not established.         0.4. Conditions to avoid         Direct sunlight. Extremely high or low temperatures.			
0.1.       Reactivity         Jpon combustion: CO and CO2 are formed.         0.2.       Chemical stability         Stable under normal conditions. Not established.         0.3.       Possibility of hazardous reactions         Not established.         0.4.       Conditions to avoid         Direct sunlight. Extremely high or low temperatures.	Other properties	. Gas/vapour neavier than air at 20°C. Slightly volatile.	
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0.2.       Chemical stability         Stable under normal conditions. Not established.       0.3.         0.3.       Possibility of hazardous reactions         Not established.       0.4.         Conditions to avoid       0.1.         Direct sunlight. Extremely high or low temperatures.	-		
Stable under normal conditions. Not established.         0.3.       Possibility of hazardous reactions         Not established.         0.4.       Conditions to avoid         Direct sunlight. Extremely high or low temperatures.	Upon combustion: CO and CO2 are formed.		
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0.4. Conditions to avoid Direct sunlight. Extremely high or low temperatures.	10.3. Possibility of hazardous reactions		
Direct sunlight. Extremely high or low temperatures.	Not established.		
	10.4. Conditions to avoid		
0.5. Incompatible materials	Direct sunlight. Extremely high or low temperate	ures.	
•	10.5. Incompatible materials		

strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information		
11.1.	Information on toxicological effects	

Acute toxicity

: Not classified

	Galaxolide Pure (1222-05-5)		
	LD50 oral rat	> 3000 mg/kg (Rat)	
	LD50 dermal rat	> 6500 mg/kg (Rat)	
-	06/03/2015	EN (English US)	4/8

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Galaxolide Pure (1222-05-5)	
LD50 dermal rabbit	> 3000 mg/kg (Rabbit)
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general	: Dangerous for the environment.	
Ecology - air	: Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).	
Ecology - water	: Water pollutant (surface water). Highly toxic to fishes. Highly toxic to aquatic organisms. Very toxic to aquatic life with long lasting effects.	
Galaxolide Pure (1222-05-5)		
LC50 fish 1	0.14 mg/l (Pimephales promelas)	
LC50 other aquatic organisms 1	0.47 mg/l (48 h; Acartia sp.)	
EC50 Daphnia 1	0.282 mg/l (504 h; Daphnia magna; Reproduction)	
EC50 other aquatic organisms 1	0.059 mg/l (120 h; Acartia sp.; Young)	
Threshold limit other aquatic organisms 1	0.47 mg/l (48 h; Acartia sp.)	
Threshold limit algae 1	0.201 mg/l (72 h; Algae)	
12.2. Persistence and degradability		
Galaxolide Pure (1222-05-5)		
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil. Photodegradation in the air. Not established.	
12.3. Bioaccumulative potential		
Galaxolide Pure (1222-05-5)		
BCF fish 1	1584 (672 h; Lepomis macrochirus)	
Log Pow	5.9 (Experimental value)	
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5). Not established.	

No additional information available

#### Other adverse effects 12.5.

Other information

: Avoid release to the environment.

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SECTION 13: Disposal consideration	IS		
13.1. Waste treatment methods			
Waste disposal recommendations	: Remove waste in accordance with local and/or national regulations. Remove to an authorized plant for the destruction, neutralization and elimination of hazardous waste. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.		
Additional information	: LWCA (the Netherlands): KGA category 03. Hazardous waste according to Directive 2008/98/EC.		
Ecology - waste materials	: Avoid release to the environment.		
SECTION 14: Transport information			
Department of Transportation (DOT) In accordance with DOT Transport document description	: UN3082 Environmentally hazardous substances, liquid, n.o.s., 9, III		
UN-No.(DOT)	: UN3082		
Proper Shipping Name (DOT)	: Environmentally hazardous substances, liquid, n.o.s.		
Transport hazard class(es) (DOT)	: 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140		
Hazard labels (DOT)	: 9 - Class 9 (Miscellaneous dangerous materials)		
Packing group (DOT)	: III - Minor Danger		
Dangerous for the environment	: Yes		
	. 100		

DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx)

: 203

: 241

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DOT Special Provisions (49 CFR 172.102)	<ul> <li>8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies.</li> <li>146 - This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as environmentally hazardous by the Competent Authority of the country of origin, transit or destination.</li> <li>173 - An appropriate generic entry may be used for this material.</li> <li>335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s," UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leak-proof when used as bulk packaging.</li> <li>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).</li> <li>T4 - 2.65 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (40 CEP 172 yyy)	: 155
DOT Packaging Exceptions (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: No limit
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Additional information	
Other information	: No supplementary information available.
ADR	
Transport document description	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III, (E)
Packing group (ADR)	: III
Class (ADR)	: 9 - Miscellaneous dangerous substances and articles
Hazard identification number (Kemler No.)	: 90
Classification code (ADR)	: M6
Hazard labels (ADR)	: 9 - Miscellaneous dangerous compounds
Orange plates	90 3082
	3082
Tunnel restriction code (ADR)	<b>3082</b>
	3082
Tunnel restriction code (ADR) Limited quantities (ADR)	3082 : E : 5I
Tunnel restriction code (ADR) Limited quantities (ADR) Excepted quantities (ADR) Transport by sea	3082 : E : 5I
Tunnel restriction code (ADR) Limited quantities (ADR) Excepted quantities (ADR) Transport by sea UN-No. (IMDG)	3082 : E : 5I : E1 : 3082
Tunnel restriction code (ADR) Limited quantities (ADR) Excepted quantities (ADR) Transport by sea	3082 : E : 5I : E1

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MFAG-No	: 171
EmS-No. (2)	: S-F
Air transport	
UN-No. (IATA)	: 3082
Class (IATA)	: 9 - Miscellaneous Dangerous Goods
Packing group (IATA)	: III - Minor Danger
Civil Aeronautics Law	: Miscellaneous dangerous substances & articles

SECTION 15: Regulatory information		
15.1. US Federal regulations		
Galaxolide Pure (1222-05-5)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		

### 15.2. International regulations

**CANADA** No additional information available

### **EU-Regulations** No additional information available

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aquatic Acute 1 H400 Aquatic Chronic 1 H410 Full text of H-phrases: see section 16

### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

N; R50/53 Full text of R-phrases: see section 16

#### **National regulations**

No additional information available

### 15.3. US State regulations

No additional information available

### **SECTION 16: Other information**

Other information

: None.

#### Full text of H-phrases:

Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

#### SDS US (GHS HazCom 2012)

Disclaimer:

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